Index of Claims

Application No.

10/006,551

Examiner

Tam D Tran

Applicant(s)

DONHAM ET AL.

Art Unit

2676

Rejected **Allowed** 

(Through numeral) Cancelled

Restricted

Non-Elected

Interference

Appeal Α

0 Objected

|          |          |              |          |               |          |              | ŀ                                   |          | Ц.   | <u> </u>   |   |       |          | _ |
|----------|----------|--------------|----------|---------------|----------|--------------|-------------------------------------|----------|--|--|---|-------|----------|---|
| Cla      | im       |              |          |               |          | Date         |                                     |          | -  |  | 1 | Cla   | aim      | Τ |
| OIL      |          | 11           | _        | $\overline{}$ | <u> </u> | T            |                                     | Т        | т  | T  | { | 0.0   | 1        | ╁ |
| Final    | Original | 4161051      |          |               |          |              |                                     |          |  |  |   | Final | Original |   |
|          | 1        | V            |          |               | <u> </u> | <del> </del> | ╁                                   | ╁        | ┰  | $\vdash$   |   |       | 51       | t |
|          | 2        | V.           |          |               | _        |              | Г                                   |          | 一  | t  |   |       | 52       | t |
|          | 3        | V            |          |               |          | l            |                                     |          |  |  |   |       | 53       | T |
|          | 4        | V.           |          |               |          |              |                                     |          | Π  |  | 1 |       | 54       | Γ |
|          | 5        | <b>V</b> .   |          |               |          |              |                                     |          | Г  |  |   |       | 55       | Γ |
|          | 6        | <b>√</b>     |          |               |          |              |                                     |          |  |  | ] |       | 56       |   |
|          | 7        | V/           |          |               |          |              |                                     |          |  |  |   |       | 57       |   |
|          | 8        | ٧,           |          | _             | _        | ╙            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | _  |  |   |       | 58       | L |
|          | 9        | ٧,           |          |               |          | $oxed{oxed}$ |                                     | <u> </u> |  | <u> </u>   |   |       | 59       | L |
|          | 10       | ٧,           |          | <u> </u>      | <u> </u> |              | _                                   | ļ        | L  | ــــ   |   |       | 60       | L |
|          | 11       | 1,           |          | <u> </u>      | _        |              | _                                   | L-       | <u> </u>                                     | <u> </u>   |   |       | 61       | L |
| <u> </u> | 12       | <b>V</b>     |          | _             | <u> </u> | _            | ├-                                  | ļ        | <u> </u> _                                   | <u> </u>   |   |       | 62       | L |
|          | 13       | ./           |          | _             | _        | ├-           | L                                   | ŀ        | <u> -</u>                                    | ├—   |   |       | 63       | ╀ |
|          | 14<br>15 | ₹,           |          | -             | <u> </u> | -            | ⊢                                   | ├        | <u> </u>                                     | ┢  |   |       | 64       | ╀ |
|          | 16       | ₩            |          | H             | H        | ├            | <del>  -</del>                      |          | <u> </u>                                     | ├  |   |       | 65       | H |
| -        | 17       | 1            |          | H             | ⊢        | ╢            | -                                   | ├        |  | ┢  |   |       | 66<br>67 | ┞ |
| 1        | 18       | V            |          | ,             |          | ├            | $\vdash$                            | $\vdash$ | ļ:   | ⊢  |   |       | 68       | ┝ |
|          | 19       | 1            | ┝        | ۱÷            | -        | -            | -                                   |          |  |  |   |       | 69       | ╁ |
|          | 20       | 1            | $\vdash$ | -             |          |              | $\vdash$                            | $\vdash$ | $\vdash$                                     |  |   |       | 70       | ⊦ |
| :        | 21       | √.           |          | $\vdash$      |          |              |                                     |          | ┢  | -  |   |       | 71       | H |
| -        | 22       | t            |          | $\vdash$      |          |              | $\vdash$                            |          | <del> </del>                                 | <del>                                     </del> |   |       | 72       | H |
| <b>—</b> | 23       | J            |          |               |          |              |                                     | -        |  | $\vdash$   |   |       | 73       | t |
|          | 24       | 1            |          |               |          |              | H                                   |          | ┪  | _  |   |       | 74       | H |
|          | 25       | Ì            |          |               |          |              |                                     |          |  |  |   |       | 74<br>75 | t |
|          | 26       | 1            |          |               |          |              |                                     |          | Г  | _  |   |       | 76       | T |
|          | 27       | 1            |          |               |          |              |                                     |          |  |  |   |       | 77       | T |
|          | 28       | V,           |          |               |          |              | Г                                   |          |  |  | 1 |       | 78       | Γ |
|          | 29       | V            |          |               |          |              |                                     |          | ·  |  |   |       | 79       | Γ |
|          | 30       | ۷            |          |               |          |              |                                     |          |  |  |   |       | 80       |   |
|          | 31       | $oxed{oxed}$ | _        |               | _        |              |                                     |          | <u> </u>                                     | _  |   |       | 81       |   |
|          | 32       | <u>L</u>     | _        |               |          |              |                                     |          | L  | _  |   | _     | 82       | L |
|          | 33       |              |          |               |          | L            |                                     |          |  |  |   |       | 83       | L |
|          | 34       |              | ļ        | <u> </u>      |          |              |                                     |          |  |  |   |       | 84       | L |
| <u> </u> | 35       | L            | <u> </u> | ╙             | _        | _            |                                     |          |  | Ļ  |   |       | 85       | L |
|          | 36       |              | _        | _             | <u> </u> | <u> </u>     | <u> </u>                            | <u> </u> |  | _  |   |       | 86       | L |
| -        | 37       | <u> </u>     | <u> </u> | L             | <u> </u> |              | _                                   | <b> </b> | -  | ٠  |   |       | 87       | L |
| -        | 38       |              | <u> </u> | <u> </u>      | <u> </u> | ⊢            |                                     |          | <u>.                                    </u> | _  |   |       | 88       | L |
|          | 39       | H            | _        | _             | ┝        | $\vdash$     | -                                   | -        | _  | <u> </u>   |   |       | 89       | ┞ |
|          | 40       | $\vdash$     | -        | _             | _        | -            |                                     | $\vdash$ | -  |  |   |       | 90       | ┞ |
| -        | 41       | -            |          |               | _        | -            |                                     | -        | -  |  |   |       | 91<br>92 | ┞ |
|          | 43       | -            | -        | -             | $\vdash$ | $\vdash$     | $\vdash$                            | $\vdash$ |  | -  |   |       | 93       | H |
| <b>—</b> | 44       |              |          | <del> </del>  |          | <del> </del> | $\vdash$                            | $\vdash$ | $\vdash$                                     | $\vdash$   |   |       | 94       | H |
| -        | 45       | Н            | $\vdash$ | $\vdash$      | H        |              | $\vdash$                            | H        | $\vdash$                                     | ┢  |   |       | 95       | H |
|          | 46       | Н            | _        |               |          |              | Н                                   | $\vdash$ | ┢  | Ι-   |   | -     | 96       | ۲ |
|          | 47       | Н            |          | $\vdash$      |          |              |                                     | $\vdash$ | -  |  |   |       | 97       | H |
|          | 48       | П            |          |               |          | Г            | Ι                                   | Г        | ┪  |  |   |       | 98       | Г |
|          | 49       | П            |          |               |          |              | Г                                   |          | Г  |  |   |       | 99       | Γ |
|          | 50       | П            |          |               |          | Г            | Г                                   | П        | ļ.   | Г  |   |       | 100      | Γ |

| Cla    | im          |               | _        |  |          | Date     | <br>e    |            |              |          | ]   | Cla   | im       |          |          |   |             | Date   | <del></del> |          |                 |        |
|--------|-------------|---------------|----------|--|----------|----------|----------|------------|--------------|----------|-----|-------|----------|----------|----------|---|-------------|--------|-------------|----------|-----------------|--------|
|        | =           | 生じのく          |          | Г  |          |          |          |            |              |          |     |       |          |          |          |   |             |        |             |          |                 |        |
| 3      | Original    | K             | ŀ        |  |          |          |          | 1          |              |          |     | ē     | Original |          |          |   |             |        |             |          |                 |        |
| =      | rig         |               |          |  |          |          | ĺ        |            | ·            |          |     | Final | īj       |          |          |   |             |        |             |          |                 |        |
|        | 0           | 05            | j        |  |          | ŀ        |          |            |              | ١.       |     | _     | 0        |          |          |   |             |        |             |          |                 |        |
| _      | 1           | V             | $\vdash$ | $\vdash$   | ╁        | -        | ┢        | ┝          | -            | $\vdash$ |     |       | 51       | Н        | _        | _ |             |        | _           | $\vdash$ | $\vdash$        |        |
|        | 1<br>2<br>3 | V             | ⊢        | <del>                                     </del> |          | -        | ⊢        | _          | ┝            | -        |     |       | 51<br>52 | Н        | _        | _ |             |        | _           | _        | $\vdash$        |        |
| _      | - 2         | Ý             | ⊢        | _  |          |          | $\vdash$ |            | ┝            |          |     |       | 53       | Н        |          |   |             |        |             |          | $\vdash$        | -      |
| _      | 4           | <del>,/</del> | -        | -  | ⊢        | <u> </u> | -        | ├          | ┝            |          |     |       | 53       |          |          | _ |             |        | _           |          | $\vdash$        | _      |
| _      | 5           | V V V V V V   |          | -  | -        | ┝        |          |            | <u> </u>     | _        |     |       | 54<br>55 | Н        |          | _ |             | _      | _           | -        | $\dashv$        |        |
|        | ٦           | ν,            | <u></u>  | _  | ⊢        | -        | ⊢        | _          | <u> </u>     | <u> </u> |     |       | 22       |          |          |   |             |        |             | Ш        | $\vdash$        |        |
|        | 6           | <b>∀</b>      | _        | <u> </u>   | <u> </u> | _        | <u> </u> | -          |              |          |     |       | 56       | L        |          |   |             |        |             |          | $\vdash \vdash$ |        |
| _      | 7           | 7             | _        | 1  | _        | _        | <u> </u> | <u> </u>   | ⊢            | _        |     |       | 57       |          |          |   |             |        |             |          | Н               |        |
|        | 8           | <b>Y</b>      |          | _  | <u> </u> | _        | _        | _          | <u> </u>     | <u> </u> |     |       | 58       | Ш        |          |   |             |        |             |          | Ш               |        |
|        | 9           | <b>Y</b>      |          | <u> </u>   | _        | _        | <u> </u> | <u> </u>   | <u> </u>     | _        |     |       | 59       | Щ        |          |   |             | _      |             | _        | Ш               |        |
|        | 10          | ٧,            |          |  | <u> </u> |          | _        | ļ          | _            |          |     |       | 60       | Ш        |          |   |             | _      | _           | _        |                 |        |
| _      | 11          | √,            |          |  |          |          |          | L_         | _            |          |     |       | 61       | Ш        |          |   |             |        |             |          |                 |        |
|        | 12          | <b>Y</b>      |          |  | _        |          | L.       | L          | _            | _        |     |       | 62       | Ш        |          |   |             |        |             |          |                 |        |
|        | 13          | Ĭ,            |          |  | _        |          |          | ·          | _            |          |     |       | 63       | Ш        |          |   |             | _      |             |          |                 |        |
|        | 14          | √<br>√<br>√,  |          |  |          | L        |          | L          | ·            |          |     |       | 64       |          |          |   |             |        |             |          |                 |        |
|        | 15          | ٧,            |          |  | <u> </u> |          |          |            | <u> </u>     |          |     | i     | 65       |          |          |   |             |        |             |          |                 |        |
|        | 16          | ٦,            |          |  |          |          |          |            |              |          |     |       | 66       |          |          |   |             |        |             |          |                 |        |
|        | 17          | ₹<br>V        |          |  |          |          |          |            |              |          |     |       | 67       |          |          |   |             |        |             |          |                 |        |
|        | 18          | V,            |          | 4  |          |          |          |            | :            |          |     |       | 68       |          |          |   |             |        |             |          |                 |        |
|        | 19          | 7             |          | Г  |          |          |          |            |              |          |     |       | 69       |          |          |   |             |        |             |          |                 |        |
|        | 20          | 1             |          |  |          |          |          |            |              |          |     |       | 70       |          |          |   |             |        |             |          |                 |        |
|        | 21          | <b>∀</b>      |          |  |          |          |          |            |              |          |     |       | 71       |          |          |   |             |        |             |          |                 |        |
|        | 22          | Ť             |          |  |          |          |          |            | -            | _        |     | -     | 72       | П        |          |   |             | _      | _           |          |                 |        |
|        | 23          | 1             |          |  |          |          |          | -          |              | $\vdash$ |     |       | 73       |          |          | _ |             |        |             |          | П               |        |
|        | 24          | 7             |          |  |          |          | $\vdash$ | -          | _            | _        |     |       | 74       |          |          | _ |             | _      |             |          | Н               |        |
|        | 25          | Ţ             |          | $\vdash$   |          |          |          |            |              |          |     |       | 75       |          |          |   | <del></del> |        |             |          | П               |        |
| $\neg$ |             | 1             | _        | $\vdash$   |          |          | $\vdash$ |            | H            |          |     |       | 76       |          |          | - |             |        |             |          | $\vdash$        |        |
| _      | 27          | 4             | _        | $\vdash$   |          |          | $\vdash$ |            | ┢            |          |     |       | 77       |          |          |   |             | _      |             |          | $\vdash$        |        |
|        | 28          | 1             | _        | $\vdash$   |          |          | $\vdash$ |            | <del> </del> |          |     |       | 78       | $\vdash$ |          |   |             | _      |             |          | $\dashv$        |        |
|        | 29          | ダ             | -        | $\vdash$   | _        |          | $\vdash$ |            | -            |          |     |       | 79       | $\vdash$ | $\dashv$ | - | _           |        |             |          | $\vdash$        |        |
|        | 30          | V             |          | ┢  | _        |          |          | _          | <del> </del> |          |     |       | 80       | -        | -        |   |             | -      |             |          | $\dashv$        |        |
| _      | 31          | V             | _        | $\vdash$   | $\vdash$ | _        |          |            | H            |          | ·   |       | 81       | Н        | _        |   |             |        |             |          | $\vdash$        |        |
| -      | 32          | ⊢             | _        |  | -        | _        | _        |            | $\vdash$     | -        |     |       | 82       |          |          |   |             |        |             |          | $\vdash$        |        |
| -      | 33          | ├             |          | ⊢  |          | _        |          |            | ⊢            | _        |     |       | 02       | -        | _        |   |             |        |             |          | $\dashv$        |        |
| -      |             | $\vdash$      |          | ┝  | H        | _        | _        | _          | -            |          |     |       | 83       | -        |          | _ |             |        | _           |          | $\dashv$        |        |
|        | 34          | <u> </u>      |          |  |          |          | _        |            |              |          |     |       | 84<br>85 | Н        |          |   |             | _      |             |          | $\dashv$        |        |
|        | 35          | ⊢             |          | ⊢  |          | _        |          | _          |              | ٠.       |     |       | 85       | $\Box$   | _        |   |             | _      |             |          | $\dashv$        |        |
|        | 36          | $\vdash$      | _        | $\vdash$   | $\vdash$ | <u> </u> | <u> </u> | <u> </u>   | $\vdash$     | _        |     |       | 86       | Ш        |          | _ |             |        |             |          |                 | _      |
| _      | 37          | <u> </u>      |          | $\vdash$   | $\vdash$ | -        | <u> </u> | <b>!</b> — | -            | '        |     |       | 87       | $\sqcup$ | $\dashv$ | _ |             |        |             |          |                 |        |
| _      | 38          |               |          | <u> </u>   |          |          |          | <u> </u>   | Ŀ            |          |     |       | 88       | Ц        |          | _ |             |        | _           |          |                 |        |
| _      | 39          |               |          | _  | $\vdash$ |          |          | _          |              | _        |     |       | 89       |          |          |   |             |        |             |          | $\Box$          |        |
|        | 40          |               |          |  |          |          |          |            |              |          |     |       | 90       |          |          |   |             |        |             |          |                 |        |
|        | 41          | L             |          | Ш  | Щ        |          | Ш        |            | _            |          |     |       | 91       | Ш        |          |   |             |        |             |          |                 |        |
|        | 42          |               |          |  |          |          |          |            |              |          |     |       | 92       |          |          |   |             |        |             |          |                 |        |
|        | 43          | $oxed{oxed}$  |          | L  |          |          |          |            |              | Ŀ        |     |       | 93       |          |          |   |             |        |             |          |                 |        |
|        | 44          | L             |          | L  |          |          |          |            |              |          |     |       | 94       |          | ]        | ] |             |        |             |          |                 |        |
|        | 45          |               |          |  |          |          |          |            |              |          |     |       | 95       |          |          |   |             |        |             |          |                 |        |
|        | 46          |               |          |  |          |          |          |            |              |          |     |       | 96       |          |          |   |             |        |             | . ]      | $\Box$          |        |
|        | 47          |               |          |  |          |          |          |            |              |          |     |       | 97       |          |          |   |             |        |             |          | $\neg$          |        |
| ╗      | 48          |               |          |  |          |          |          |            |              |          |     |       | 98       |          |          |   |             |        |             |          | $\dashv$        | $\neg$ |
| ╗      | 49          |               |          |  |          |          |          |            |              |          |     |       | 99       |          | $\neg$   |   |             |        |             |          | 寸               | 一      |
| 一      | 50          |               |          |  | П        |          |          |            |              |          |     |       | 100      | $\Box$   |          |   | _           | $\neg$ | $\vdash$    |          | 一               |        |
|        |             |               |          |  | _        |          |          |            | ك            |          | ١ ١ |       |          |          |          |   |             |        |             |          |                 |        |

| Cli   | aim               | L        |          |          |  | Date     | <b>e</b>     | ,            |          |                 |
|-------|-------------------|----------|----------|----------|--|----------|--------------|--------------|----------|-----------------|
| Final | Original          |          |          |          | į  |          |              |              | !        |                 |
|       | 101<br>102        |          |          |          |  |          |              |              |          |                 |
|       | 102               |          | _        | _        |  | L        |              |              |          | Ш               |
|       | 103               |          | _        | _        |  | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> |                 |
|       | 104               |          | _        | _        | _  | <u> </u> | -            |              | <u> </u> |                 |
|       | 105<br>106        |          | -        |          |  | -        | <del> </del> | ├            | ┝        | Н               |
|       | 107               |          | $\vdash$ | -        | -  | ├─       | -            |              | ┢        |                 |
|       | 108               |          | $\vdash$ |          | _  | ┪        |              |              | $\vdash$ |                 |
|       | 109               |          | Г        |          |  | $\vdash$ |              |              |          |                 |
|       | 110               |          |          |          |  |          |              |              |          |                 |
|       | 111,              |          |          | <u> </u> |  |          |              |              | _        |                 |
|       | 112<br>113        |          |          | <u> </u> |  | _        | <u> </u>     | <u> </u>     | <u> </u> | Щ               |
|       | 113               |          | -        | -        |  | <u> </u> | <u> </u>     |              | <u> </u> | H               |
|       | 114               |          | $\vdash$ | $\vdash$ | -  | -        |              | $\vdash$     | -        |                 |
|       | 115<br>116        |          | H        |          | $\vdash$   | ├        |              |              | -        | Н               |
|       | 117               |          |          |          | <del>                                     </del> | $\vdash$ |              | <u> </u>     | $\vdash$ | H               |
|       | 117<br>118        |          |          | -        | -  | ┪        | _            |              | Т        | H               |
|       | 119               |          |          |          |  |          |              |              |          |                 |
|       | 120<br>121<br>122 |          |          |          |  |          |              |              |          |                 |
|       | 121               |          | _        |          | _  |          |              |              | <u> </u> |                 |
|       | 122               | _        |          |          | _  | _        | _            | <u> </u>     | <u> </u> |                 |
|       | 123<br>124        |          |          |          | <u> </u>   |          | -            |              |          | <u> </u>        |
|       | 124               | <u> </u> |          |          | -  | -        | ┝            | $\vdash$     | -        | $\vdash$        |
|       | 126               |          |          |          |  | <u> </u> | -            | ┢┈           | -        | Н               |
|       | 125<br>126<br>127 |          |          |          |  |          |              | _            | $\vdash$ | Н               |
|       | 128<br>129        |          |          |          |  |          |              |              |          |                 |
|       | 129               |          |          |          |  |          |              |              |          |                 |
|       | 130               |          |          |          |  |          |              |              |          |                 |
|       | 131               |          |          | <u> </u> |  |          | <u> </u>     | $oxed{oxed}$ | <u> </u> |                 |
|       | 132               |          |          | ┝        |  |          | ⊢            | <u> </u>     |          | L               |
|       | 133               |          |          | -        | -  | ├—       | <u> </u>     | <del> </del> | _        | Н               |
|       | 134<br>135        |          | -        | $\vdash$ |  | ┝        | $\vdash$     | H            |          | H               |
|       | 136               |          |          | $\vdash$ |  | -        | $\vdash$     |              |          |                 |
|       | 137               |          | _        |          |  |          |              |              |          | П               |
|       | 138               |          |          |          |  |          |              |              |          |                 |
|       | 139               |          |          |          |  |          |              |              |          |                 |
|       | 140               | _        |          |          |  | _        | <u> </u>     |              | L_       |                 |
|       | 141               | L        | _        | H        | <u> </u>   | <u> </u> | <u> </u>     |              | _        | Н               |
|       | 142<br>143        |          |          | $\vdash$ | -  | ├-       | <u> </u>     |              |          | $\vdash\vdash$  |
|       | 144               |          |          | H        |  | $\vdash$ | _            |              | _        | $\vdash \vdash$ |
|       | 145               |          |          | Н        | _  |          | -            |              |          | -               |
|       | 146               |          |          | Г        |  | Т        | Т            | Т            |          | $\vdash \vdash$ |
|       | 147               |          |          |          |  |          |              |              |          |                 |
|       | 148               |          |          |          |  |          |              |              |          |                 |
|       | 149               |          |          |          |  |          |              |              |          |                 |
|       | 150               |          |          |          |  |          |              |              |          | Ш               |